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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/955,290      | 09/19/2001  | Hirokazu Shoda       | 016907/1299         | 8173             |

22428 7590 02/09/2006

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EXAMINER

SHERALI, ISHRAT I

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

2621

DATE MAILED: 02/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                                      |                                     |  |
|------------------------------|--------------------------------------|-------------------------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>09/955,290 | <b>Applicant(s)</b><br>SHODA ET AL. |  |
|                              | <b>Examiner</b><br>Sherali Ishrat    | <b>Art Unit</b><br>2621             |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 04 November 2005.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) 7-9, and 14-15 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-6, 10-13 and 16-19 is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>9/19/2001</u> . | 6) <input type="checkbox"/> Other: _____  |

## **Election/Restriction**

1. Applicant election of species 1, corresponding claims 1-6, 10-13, and 16-19 is acknowledge (paper received 11/04/2005). Applicant has elected species 1 without traverse. Restriction requirement is made FINAL.

## **Claim Rejections - 35 USC § 102**

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-6, 10-13 and 16-19 are rejected under 35 USC 102 (b) as being anticipated by Yuji (JP 07-203211/Machine Translation).

Regarding claims 1, 16 and 18, Yuji discloses image compression apparatus (Yuji, page 2, lines 1-2 “compressing color image data” and compressed data is decompressed) comprising:

judging the color region image signal and outputting result (Yuji, page 2, lines 19-30, “recognition signal for recognizing color which shows the class of color space”. This corresponds to judging the color region image signal and outputting result);

a switch which chooses one parameter out of plurality of parameters based on judging information (Yuji, page 3, lines 1-10, “switch which chooses Huffman

quantization table based on color space of the image data based on the recognition signal". This corresponds to a switch which chooses one parameter out of plurality of parameters based on judging information [color quantization parameter]);

compressing color image based on the compression parameters chosen by the switch section (Yuji, page 3, lines 25-35, Yuji shows "compressing is carried out using selected Huffman table". This corresponds to compressing color image based on the compression parameters chosen by the switch section).

Regarding claim 2, Yuji discloses a color transforming section which transforms color image signals given as described above into a color signal which is a chrominance signal, and supplies it to the color region judging section and the compressing section (Yuji, page 6, lines 13-20, shows YUV and Lab is used color conversion section of compression zone and as discussed above Yuji in page 2, lines 19-30, compression is based color judging section to select the compression parameter. This corresponds to color transforming section [color conversion] which transforms color image signals given as described above into a color signal which is a chrominance signal [Lab/YUV], and supplies it to the color region judging section and the compressing section).

Regarding claim 3, Yuji discloses judging color using correlation of chrominance signal (Yuji, page 6, lines 13-20, shows YUV and Lab is used color conversion section of compression zone and as discussed above Yuji in page 2, lines 19-30, compression is based color judging section to select the compression parameter. Since Yuji uses YUV or Lab color for judging color of compression zone which are color spaces based

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on the luminance and chrominance signal therefore Yuji judging color using correlation of chrominance signal).

Regarding claim 4, Yuji discloses compression section includes an encoder to which the color image signal corresponding to the compression parameter is supplied and which codes the color image signal (Yuji, page 3, lines 1-10, "switch which chooses Huffman quantization table based on color space of the image data based on the recognition signal" and Yuji, page 3, lines 25-35, Yuji shows "compressing is carried out using selected Huffman table". This corresponds to compression section includes an encoder to which the color image signal corresponding to the compression parameter is supplied and which codes the color image signal. Encoder is Huffman encoder.)

Regarding claim 5, Yuji discloses encoder has coding information for each color region (Yuji, page 6, lines 13-20, shows YUV and Lab is used color conversion section of compression zone and as discussed above Yuji in page 2, lines 19-30, compression is based color judging section to select the compression parameter i.e. encoder has coding information for each color region which is selected Huffman table as discussed above).

Regarding claim 6, Yuji discloses adder which adds judgment information to compressed color signal (Yuji, page 3, lines 34-40 shows header information is added to the compressed signal which includes which color space compression was carried out).

Regarding claim 10, 17 and 19 Yuji discloses image decompression apparatus (Yuji, page 2, lines 40-45 “compressing/decompressing [elongation] color image data”) comprising:

judging the color region image signal and outputting result (Yuji, page 2, lines 19-30, “recognition signal for recognizing color which shows the class of color space”. This corresponds to judging the color region image signal and outputting result);

a switch which chooses one parameter out of plurality of parameters based on judging information (Yuji, page 3, lines 1-10, “switch which chooses Huffman quantization table based on color space of the image data based on the recognition signal”. This corresponds to a switch which chooses one parameter out of plurality of parameters based on judging information [color quantization parameter]);

decompressing color image based on the compression parameters chosen by the switch section (Yuji, page 3, lines 40-45, Yuji shows “decompression of compressed image is carried out using compression parameter which the color space used for compression”. This corresponds to decompressing color image based on the compression parameters chosen by the switch section).

Regarding claim 11, color region judging section judges color region which the compressed image given includes (Yuji, page 3, lines 40-45, Yuji shows “decompression of compressed image is carried out using compression parameter which the color space used for compression” and Yuji, page 3, lines 34-40 shows header information is added to the compressed signal which includes which color space

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compression was carried out). This corresponds to color region judging section judges color region which the compressed image given includes).

Regarding claim 12 Yuji discloses a correcting section which corrects the color image (Yuji, page 6, lines 13-20, shows YUV and Lab is used color conversion section of compression zone and as discussed above Yuji in page 2, lines 19-30, compression is based color judging section to select the compression parameter).

Regarding claim 13, Yuji discloses decompression comprises code separating (Yuji, page 3, lines 34-40 shows header information is added to the compressed signal which includes which color space compression was carried out). It is inherent that header is not decompressed only the huffman coded data is decompressed therefore header has to be separated) .

## **Communication**


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherali Ishrat whose telephone number is 571-272-7398. The examiner can normally be reached on 8:00 AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso can be reached on 571-272-7695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ishrat Sherali



**ISHRAT SHERALI**  
**PATENT EXAMINER**  
**ARTUNIT 2621**

February 1, 2006